SHARP

ENGLISH
DEUTSCH
FRANÇAIS
ITALIANO
ESPAÑOL
NEDERLANDS

# LC-20S4E

**LCD COLOUR TELEVISION**
**LCD-FARBFERNSEHGERÄT**
**TÉLÉVISION COULEUR À ÉCRAN À CRISTAUX LIQUIDES (LCD)**
**TELEVISORE A COLORI LCD**
**TELEVISIÓN EN COLOR LCD**
**LCD-KLEURENTELEVISIE**

AQUOS

OPERATION MANUAL
BEDIENUNGSANLEITUNG
MODE D'EMPLOI
MANUALE DI ISTRUZIONI
MANUAL DE MANEJO
GEBRUIKSAANWIJZING

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This apparatus complies with the requirements of Council Directives 89/336/EEC and 73/23/EEC as amended by Council Directive 93/68/EEC.

Dieses Gerät entspricht den Anforderungen der EG-Richtlinien 89/336/EWG und 73/23/EWG mit Änderung 93/68/EWG.

Ce matériel répond aux exigences contenues dans les directives 89/336/CEE et 73/23/CEE modifiées par la directive 93/68/CEE.

Dit apparaat voldoet aan de eisen van de richtlijnen 89/336/EEG en 73/23/EEG, gewijzigd door 93/68/EEG.

Dette udstyr overholder kravene i direktiv nr. 89/336/EEC og 73/23/EEC med tillæg nr. 93/68/EEC.

Quest' apparecchio è conforme ai requisiti delle direttive 89/336/EEC e 73/23/EEC, come emendata dalla direttiva 93/68/EEC.

Αυτή η συσκευή συμμορφώνεται με τις απαιτήσεις των οδηγιών του Συμβουλίου 89/336/ΕΟΚ και 73/23/ΕΟΚ όπως τροποποιήθηκαν από την οδηγία του Συμβουλίου 93/68/ΕΟΚ.

Este equipamento obedece às exigências das directivas 89/336/CEE e 73/23/CEE, na sua versão corrigida pela directiva 93/68/CEE.

Este aparato satisface las exigencias de las Directivas 89/336/CEE y 73/23/CEE, modificadas por medio de la 93/68/CEE.

Denna utrustning uppfyller kraven enligt riktlinjerna 89/336/EEC och 73/23/EEC så som kompletteras av 93/68/EEC.

Dette produktet oppfyller betingelsene i direktivene 89/336/EEC og 73/23/EEC i endringen 93/68/EEC.

Tämä laite täyttää direktiivien 89/336/EEC ja 73/23/EEC vaatimukset, joita on muutettu direktiivillä 93/68/EEC.

Bu cihaz Konsey Direktifi 93/68/EEC tarafindan düzeltilen 89/336/EEC ve 73/23/EEC Konsey Direktiflerinin gerekliliklerine uygundur.

Tento přístroj je v souladu s požadavky směrnic rady 89/336/EEC a 73/23/EEC, tak jak byly upraveny směrnicí rady 93/68/EEC.

See seade on vastavuses Nõukogu Direktiivis nr 89/336/EEC ja 73/23/EEC esitatud nõuetega, vastavalt Nõukogu Direktiivis nr 93/68/EEC esitatud parandustele

Ez a készülék megfelel a Tanács által kiadott, 89/336/EGK és 73/23/EGK Irányelveknek és az utóbbit módosító 93/68/EGK Irányelvnek

Ši ierice atbilst tehniskam prasibam pec 89/336/EEC un 73/23/EEC direktivam papildinats ar direktivu 93/68/EEC.

Šis prietaisas atitinka ES Tarybos direktyvu 89/336/EEC ir 73/23/EEC patikslintos direktyvos 93/68/EEC reikalavimus.

To urządzenie spełnia wymagania dyrektyw 89/336/EEC i 73/23/EEC wraz z poprawkami dyrektywy 93/68/EEC.

Tento prístroj je v súlade s požiadavkami smerníc rady 89/336/EEC a 73/23/EEC tak ako boli upravené smernicou rady 93/68/EEC.

Ta aparat je v skladu z zahtevami Direktiv Sveta 89/336/EEC in 73/23/EEC kot je navedeno v dopolnilu k Direktivi Sveta 93/68/EEC.

## SPECIAL NOTE FOR USERS IN THE UK

The mains lead of this product is fitted with a non-rewireable (moulded) plug incorporating a 3A fuse. Should the fuse need to be replaced, a BSI or ASTA approved BS 1362 fuse marked ♆ or ◈ and of the same rating as above, which is also indicated on the pin face of the plug, must be used.

Always refit the fuse cover after replacing the fuse. Never use the plug without the fuse cover fitted.

In the unlikely event of the socket outlet in your home not being compatible with the plug supplied, cut off the mains plug and fit an appropriate type.

**DANGER:** The fuse from the cut-off plug should be removed and the cut-off plug destroyed immediately and disposed of in a safe manner.

Under no circumstances should the cut-off plug be inserted elsewhere into a 13A socket outlet, as a serious electric shock may occur.

To fit an appropriate plug to the mains lead, follow the instructions below:

**IMPORTANT:** The wires in the mains lead are coloured in accordance with the following code:

Blue : Neutral  Brown : Live

As the colours of the wires in the mains lead of this product may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows;

- The wire which is coloured blue must be connected to the plug terminal which is marked N or coloured black.
- The wire which is coloured brown must be connected to the plug terminal which is marked L or coloured red.

Ensure that neither the brown nor the blue wire is connected to the earth terminal in your three-pin plug.

Before replacing the plug cover make sure that:

- If the new fitted plug contains a fuse, its value is the same as that removed from the cut-off plug.
- The cord grip is clamped over the sheath of the mains lead, and not simply over the lead wires.

IF YOU HAVE ANY DOUBT, CONSULT A QUALIFIED ELECTRICIAN.

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ENGLISH

# LC-20S4E

## LCD COLOUR TELEVISION
## ENGLISH

OPERATION MANUAL

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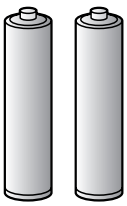
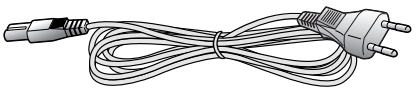
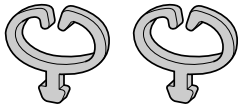
**Dimensional Drawings**

- The dimensional drawings for this model are shown on the inside of the back cover.

## Supplied Accessories

Make sure the following accessories are provided with the LCD TV set.

| Wireless remote control | "AAA" size batteries (×2) | AC cord | Cable clamps (×2) |
|---|---|---|---|
| |  |  |  |
| **pages 4 and 5** | **page 4** | * Product shape may vary from country to country.<br>**page 3** | **page 3**<br>Operation manual |

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# Dear SHARP Customer

Thank you for your purchase of the SHARP LCD colour TV product. To ensure safety and many years of trouble-free operation of your product, please read the Important Safety Precautions carefully before using this product.

# Important Safety Precautions

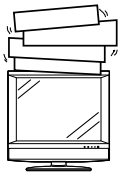
- Cleaning—Unplug the AC cord from the AC outlet before cleaning the product. Use a damp cloth to clean the product. Do not use liquid cleaners or aerosol cleaners.

- Water and moisture—Do not use the product near water, such as bathtub, washbasin, kitchen sink, laundry tub, swimming pool and in a wet basement.

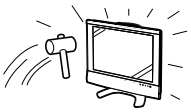
- Stand—Do not place the product on an unstable cart, stand, tripod or table. Doing so can cause the product to fall, resulting in serious personal injuries as well as damage to the product. Use only a cart, stand, tripod, bracket or table recommended by the manufacturer or sold with the product. When mounting the product on a wall, be sure to follow the manufacturer's instructions. Use only the mounting hardware recommended by the manufacturer.

- When relocating the product placed on a cart, it must be moved with utmost care. Sudden stops, excessive force and uneven floor surface can cause the product to fall from the cart.

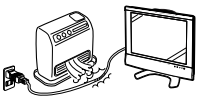
- Ventilation—The vents and other openings in the cabinet are designed for ventilation. Do not cover or block these vents and openings since insufficient ventilation can cause overheating and/or shorten the life of the product. Do not place the product on a bed, sofa, rug or other similar surface, since they can block ventilation openings. This product is not designed for built-in installation; do not place the product in an enclosed place such as a bookcase or rack, unless proper ventilation is provided or the manufacturer's instructions are followed.



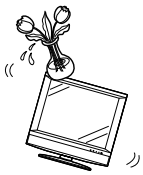
- The LCD panel used in this product is made of glass. Therefore, it can break when the product is dropped or applied with impact. Be careful not to be injured by broken glass pieces in case the LCD panel breaks.



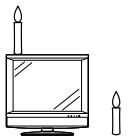
- Heat sources—Keep the product away from heat sources such as radiators, heaters, stoves and other heat-generating products (including amplifiers).



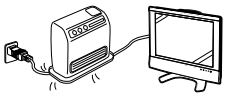
- Do not place vases or any other water-filled containers on this product. The water may spill onto the product causing fire or electric shock.



- To prevent fire, never place any type of candle or naked flames on the top or near the TV set.



- To prevent fire or shock hazard, do not place the AC power cord under the TV set or other heavy items.



The LCD panel is a very high technology product with 921,600 thin film transistors, giving you fine picture details.
Due to the very large number of pixels, a few non-active pixels may occasionally appear on the screen as a fixed point of blue, green or red.
This is within product specifications and does not constitute a fault.

Do not display a still picture for a long time, as this could cause an afterimage to remain.

There is power consumption always if main plug is connected.

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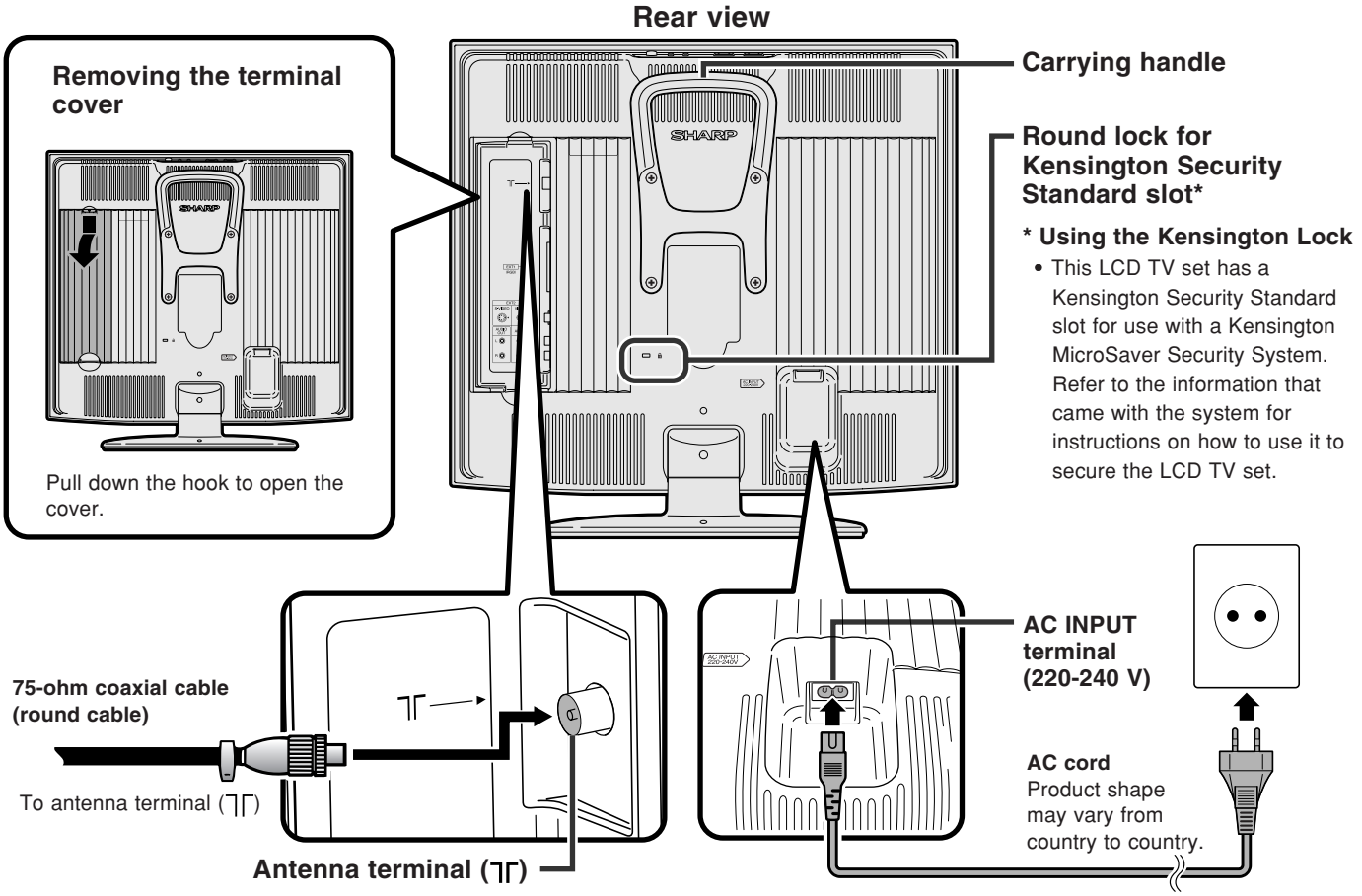
# Preparation

## Setting the TV

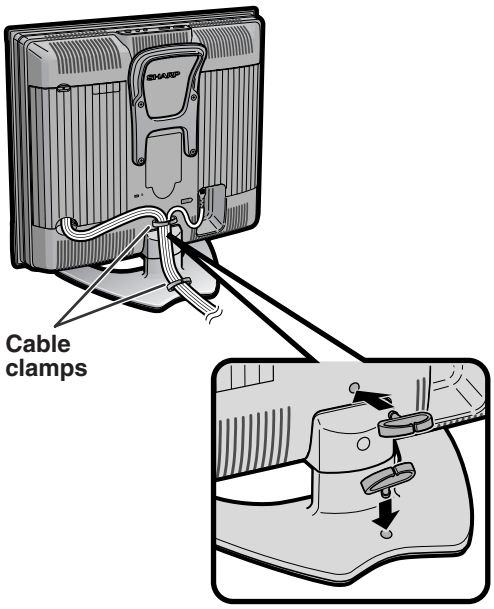

Rear view
Removing the terminal cover
Pull down the hook to open the cover.
Carrying handle
Round lock for Kensington Security Standard slot*
* Using the Kensington Lock
• This LCD TV set has a Kensington Security Standard slot for use with a Kensington MicroSaver Security System. Refer to the information that came with the system for instructions on how to use it to secure the LCD TV set.
AC INPUT terminal (220-240 V)
AC cord
Product shape may vary from country to country.
75-ohm coaxial cable (round cable)
To antenna terminal (ꟻ)
Antenna terminal (ꟻ)

**NOTE**

- Unplug the AC cord from the LCD TV set and power outlet when the LCD TV set is not to be used for a long period of time.
- Please ensure your 75-ohm coaxial cable is fitted with a DIN 45325 (IEC169-2) coaxial plug and plug it into the antenna terminal at the side of the LCD TV set (antenna cable not supplied).

### How to Fix the Cables

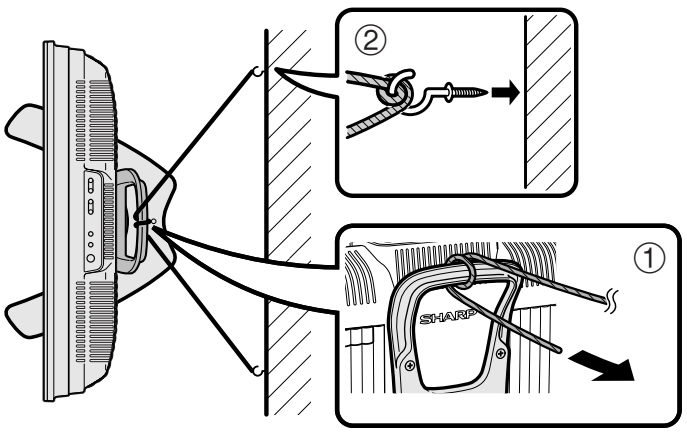
Secure cables and cords with the supplied cable clamps so that they do not get caught when mounting the cover.




### How to Prevent the LCD TV Set from Falling Over

To prevent the LCD TV set from falling over in case of earthquakes and so on, strap it onto the wall by threading one end of the string through the loop of the stand (①) and fastening the LCD TV set with the string attached to the hook on the wall or the post, etc. (②).
(An example of strapping the LCD TV set onto the wall is shown below.)

- The string and hook are commercially available.

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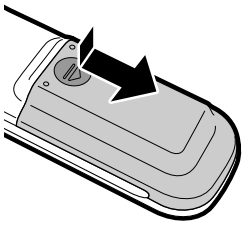
## Installing Batteries in the Remote Control

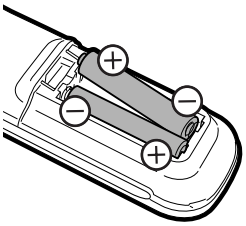
Before using the LCD TV set for the first time, install the two “AAA” size batteries (supplied) in the remote control. When the batteries become depleted and the remote control fails to operate, replace the batteries with new “AAA” size batteries.

**1** Open the battery cover.



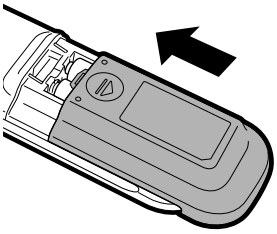
- Slide the cover while pressing the (▼) part.

**2** Insert two “AAA” size batteries.



- Place batteries with their terminals corresponding to the (+) and (–) indications in the battery compartment.

**3** Close the battery cover.



- Engaging the lower claw with the remote control, close the cover.

**⚠ Caution!**

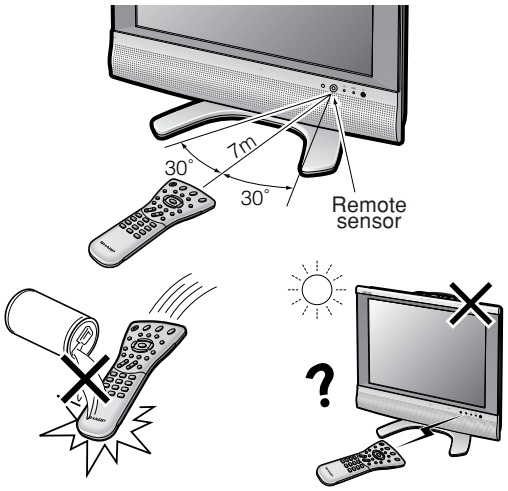
**Precautions regarding batteries**

Improper use of batteries can result in a leakage of chemicals and/or explosion. Be sure to follow the instructions below.

- Different types of batteries have different characteristics. Do not mix batteries of different types.
- Do not mix old and new batteries. Mixing old and new batteries can shorten the life of new batteries and/or cause old batteries to leak chemicals.
- Remove batteries as soon as they are depleted. Chemicals that leak from batteries can cause a rash. If chemical leakage is found, wipe it off with a cloth.
- The batteries supplied with the LCD TV set may have a shorter operating time due to storage conditions.
- If the remote control is not to be used for an extended period of time, remove the batteries from the remote control.

## Using the Remote Control

Use the remote control by pointing it towards the remote sensor window of the main unit. Objects between the remote control and sensor window may prevent proper operation.



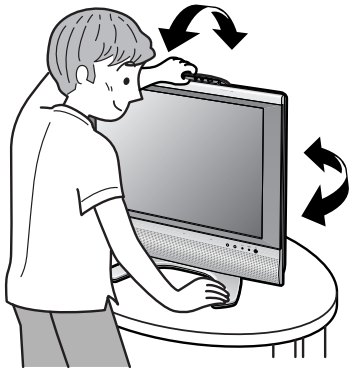

**Cautions regarding use of the remote control**

- Do not apply shock to the remote control. In addition, do not expose the remote control to liquids, and do not place it in an area with high humidity.
- Do not install or place the remote control in direct sunlight. The heat may cause deformation to it.
- The remote control may not work properly if the remote sensor window is in direct sunlight or strong light. In such a case, change the angle of the lighting or main unit, or operate the remote control closer to the remote sensor window.

## How to Adjust the Angle

To change the vertical angle of the LCD TV set, tilt the screen up to 2.5 degrees forwards or 10 degrees backwards. The LCD TV set can also be rotated up to 25 degrees to right and left. Please adjust the angle so that the LCD TV set can be watched most comfortably.

Tilt the display by grabbing onto the carrying handle while securely holding down the stand with other hand.



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# Part Names of the Remote Control

**BACKLIGHT** (P. 12)
Selects the brightness and OPC of the display.

**(Hold)** (P. 14)
Temporarily holds the current Teletext page.

**(Power)**
Switches the LCD TV set power on or standby.

**(Subtitle)** (P. 14)
Displays the Teletext Subtitle directly.

**OK, Programme Table** (P. 8, 12)

**(Sound)** (P. 9)
Switches to the sound mode.

**Right/Left Selection** (P. 8)

**Red, Picture menu** (P. 9, 14)

**Green, Sound menu** (P. 9, 14)

**(+)/(–) (Volume)**
Changes the sound volume.

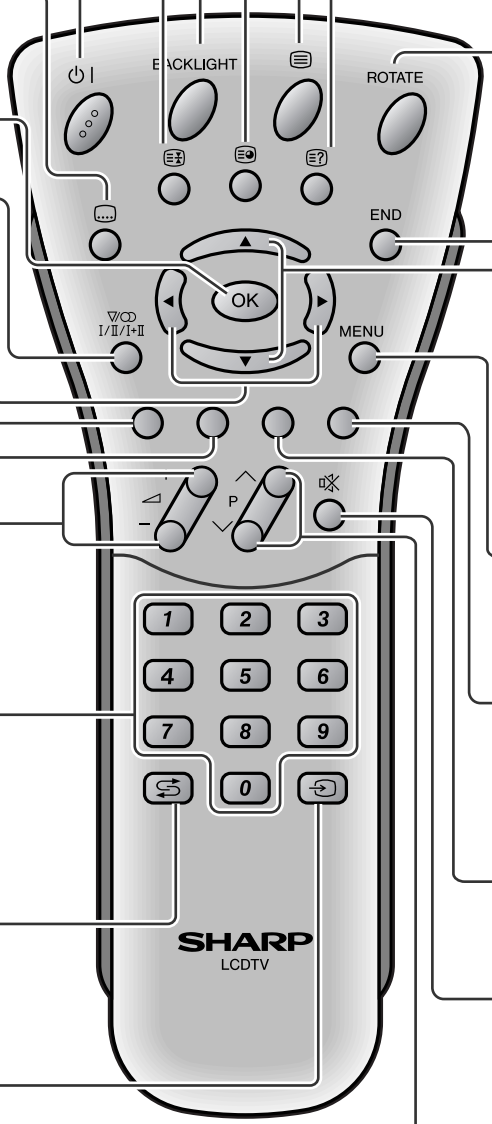
**Channel Select**
**TV input mode:** Selects the channel. This LCD TV set allows you to select up to 200 channels (0 to 199).
**Teletext mode:** Selects the page. (P. 14)

**(Flashback)**
Switches the channels between the currently tuned one and the previous one.

**(Input)**
Switches the input source between EXT1, EXT2 and TV modes.

**NOTE**

- **EXT1**: Select this mode when viewing the signals from the video equipment connected to the EXT1 (21-pin Euro-SCART (RGB)) terminal.
- **EXT2**: Select this mode when viewing the signals from the video equipment connected to the EXT2 terminals using the VIDEO or S-VIDEO terminal for video input.
  If both VIDEO and S-VIDEO terminals are connected with cables, the S-VIDEO input terminal is selected as the high priority.




**(Subpage)** (P. 14)
Displays the Teletext Subpage directly.

**(Teletext)** (P. 14)
Displays the Teletext mode screen.

**(Reveal)** (P. 14)
Displays hidden information such as solutions to riddles and puzzles.

**ROTATE** (P. 10)
Rotates the display in every direction.

**END** (P. 8)
Returns to normal screen.

**Upwards/Downwards Selection, Zoom Display Function** (Teletext mode) (P. 8, 14)

**MENU** (P. 8)
Displays the TV menu.
Returns to the previous screen.

**Blue, Status Display** (P. 12, 14)
Turns on the status display when the menu is not displayed.

**Yellow, Sleep Timer** (P. 12, 14)

**(Mute)**
Switches the sound on and off.

Sound off ↔ Sound on

- When **(+)/(–)** is pressed in the Mute mode, the sound turns on, and the volume indicator is displayed.
- The Mute function is cancelled when **⏻|** is pressed.

**P (∧)/(∨) (Channel)**
**TV input mode:** Selects the channel.
- Channel "0" is reserved for RF output of VCR.
- Channels not set with "Automatic search" or via "Setup" are set to be skipped and therefore cannot be displayed using **P (∧)/(∨)**.

**Teletext mode:** Selects the page. (P. 14)

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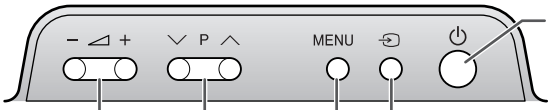
# Part Names of the Main Unit

## Controls

### Upper control panel

#### ■ Using the control panel of the main unit

- **(Input)**, **P (∨)/(∧) (Channel)**, **(–)/(+) (Volume)** and **MENU** on the control panel of the main unit have the same functions as the same buttons on the remote control. Fundamentally, this operation manual provides a description based on operation using the remote control.



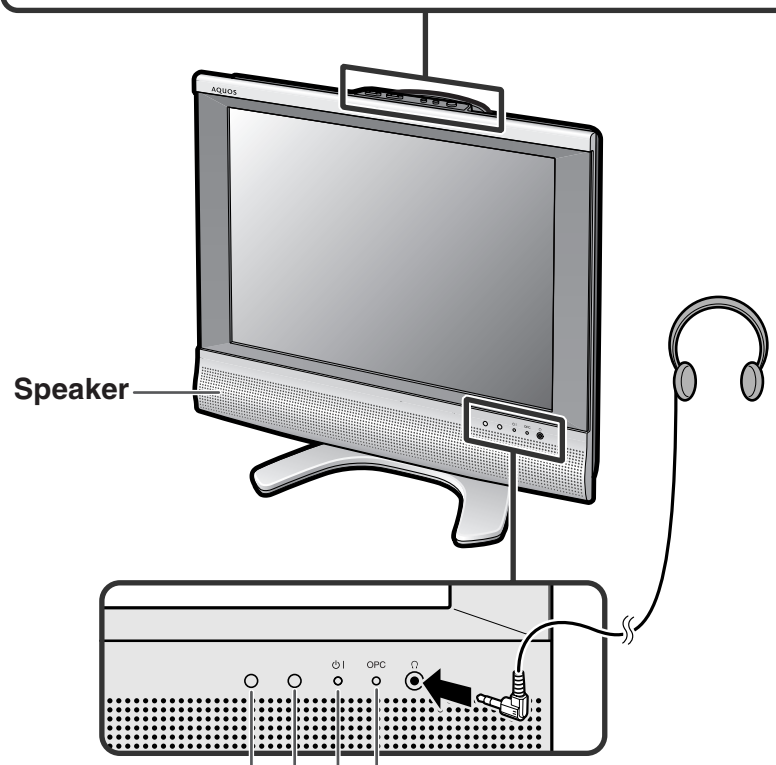

**(MAIN POWER)**

- The STANDBY/ON indicator instantly changes from red to green and the LCD TV set is turned on.
- To turn off the main power, press again.

#### ■ Operating the menu with the control panel (See page 8.)

Button operations on the control panel correspond to the ones on the remote control as shown below.

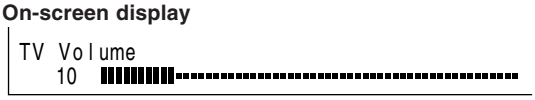
| | |
|---|---|
| **(Input)** | **OK** on the remote control |
| **MENU** | **MENU** on the remote control |
| **P (∨)/(∧) (Channel)** | ▼/▲ on the remote control |
| **(–)/(+) (Volume)** | ◀/▶ on the remote control |




### Headphones

Plug the headphone mini-plug into the headphone jack. Adjust the sound volume using **(+)/(–)** on the remote control.

**On-screen display**




**NOTE**

- Headphones are not included in the supplied accessories.
- No sound is heard from the main unit speakers when a headphone mini-plug is connected into the headphone jack.
- Do not set the volume at a high level. Hearing experts advise against extended listening at high volume levels.

**OPC (Optical Picture Control) indicator**

The OPC indicator lights up green when the “Backlight” is set to “Auto (OPC)”. (See page 12.)

**STANDBY/ON indicator**

The STANDBY/ON indicator lights up green when the power is on, and red when in the standby mode (the indicator will not light when the main power is off).

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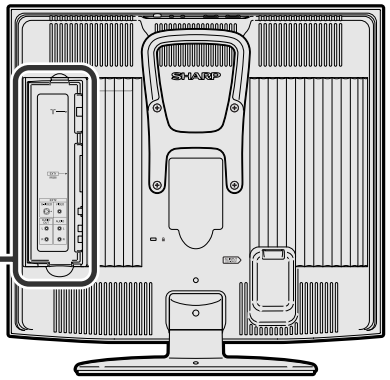
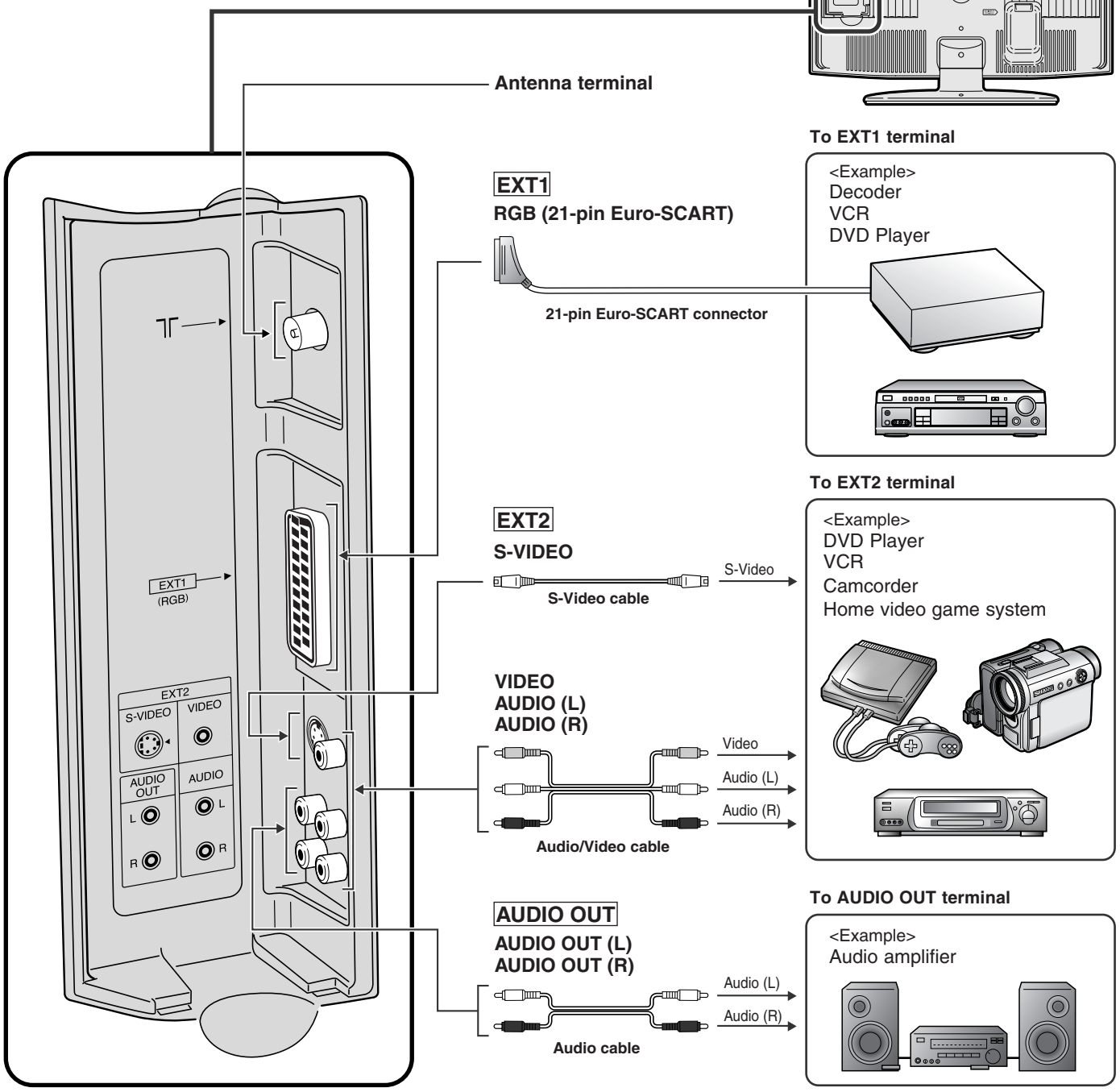
# Connecting External Devices

You can enjoy picture and sound by connecting devices, such as a VCR or home video game system, to the terminals located on the rear of the LCD TV set.
When connecting an external device, turn off the power of the LCD TV set first to prevent any possible damage.



## Terminals




**NOTE**

- For the cable, use a commercially available audio/video cable.
- PC connection is not possible.
- For more information about external device connections, see the operation manuals of your external devices.
- Make sure that the corresponding cables are connected to each terminal. Connecting other cables may result in a malfunction.
- EXT2 has two terminals, VIDEO and S-VIDEO terminals. If your external device has an S-VIDEO terminal, S-VIDEO connection is recommended. S-VIDEO provides a finer, more detailed picture. If both terminals are connected, S-VIDEO terminal takes a priority.

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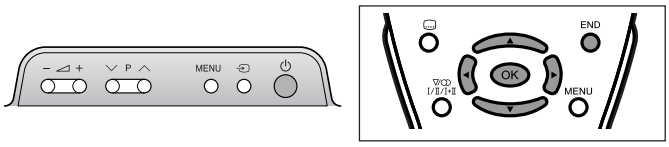
# Basic Operation

## First Installation

When you turn on the LCD TV set for the first time, the First Installation routine, which makes installation easier, is activated. Using this routine, you can select the on-screen display language, clock setup and automatically search for and store all the receivable TV channels.

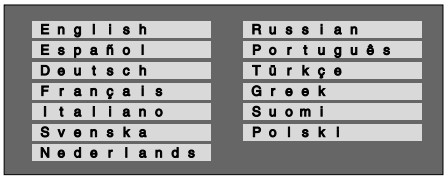
**NOTE**

- You can also execute the First Installation routine by selecting "First installation" on the Setup Menu screen. For selecting the menu items, see the right column.




**1** Press ⏻ **(MAIN POWER)** on the LCD TV set.
- The "First installation" screen with a list of the languages for the on-screen display is displayed.

**2** Press ▲/▼/◀/▶ to select the desired language, and press **OK**.




**3** Press ▲/▼ to set the time, and press **OK**.
- The time you set is automatically updated via Teletext time information.

**4** Press ▲/▼ to select the desired item, and press ◀/▶ to make the setting.

**NOTE**

- You can change "Colour system" and "Sound system" only when "Other count." is selected in "Country".

**5** Press ▲/▼ to select "Start search", and press **OK**.
- The automatic programme search begins.

**6** Press **END** to exit

**NOTE**

- After the First installation routine, you can change the settings of "Language" (page 10) and "Clock setup" (page 10), and perform "Automatic search" (page 11) again.

## Selecting Menu Items

The menus can be used to adjust the various settings of your LCD TV set.
For details on setting each menu item, refer to the page number indicated below.

**NOTE**

- **The illustrations and on-screen displays in this manual are for explanation purposes and may vary slightly from the actual appearance.**
- "Programmes" or "First installation" cannot be set when the EXT1 or EXT2 mode is selected as an input mode.
- Settings most recently adjusted will be saved in memory.

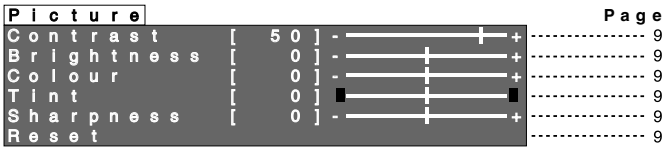
### ■ Using the remote control

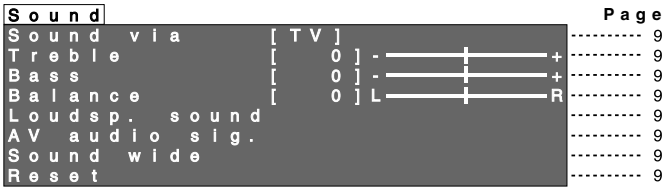
**1** Press **MENU** to display the Menu screen.

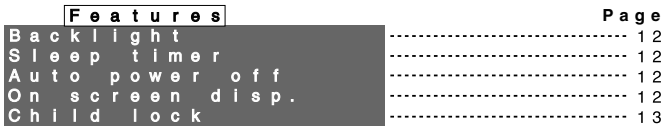
**2** Press ◀/▶ to select the desired menu item.
- The cursor moves left or right.
- The cursor indicates the selected menu item.

**3** Press ▲/▼ to select the desired item, and press ◀/▶ to adjust the selected item.

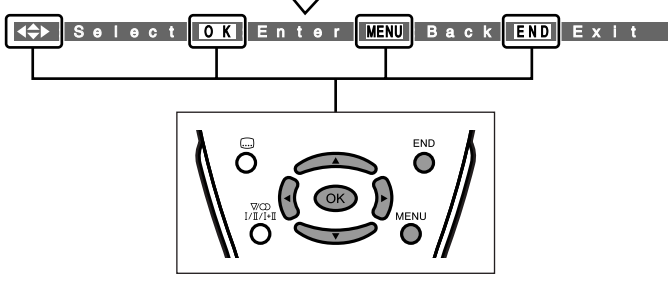
**4** Press **MENU** to return to the previous screen or **END** to return to the normal screen.






**The bar below is an operational guide for the remote control. The bar will change in accordance with each menu setting screen.**

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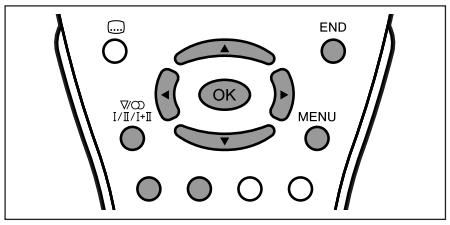
# Useful Features




## Picture Adjustments

Adjust the picture to suit your preference. See the table below for the adjustment items.

1 Press **MENU** to display the Menu screen.
- The Picture Menu screen can be displayed directly by pressing the **Red** button.

2 Press ◀/▶ to select “Picture”.

3 Press ▲/▼ to select a specific adjustment item.

4 Press ◀/▶ to adjust the item to your desired position, and press **END** to exit.

| Selected item | ◀ button | ▶ button |
|---|---|---|
| Contrast | For less contrast | For more contrast |
| Brightness | For less brightness | For more brightness |
| Colour | For less colour intensity | For more colour intensity |
| Tint | Skin tones become purplish. | Skin tones become greenish. |
| Sharpness | For less sharpness | For more sharpness |

## Sound Adjustments

Adjust the sound quality and volume to suit your preference. See the table below for the adjustment items.

1 Press **MENU** to display the Menu screen.
- The Sound Menu screen can be displayed directly by pressing the **Green** button.

2 Press ◀/▶ to select “Sound”.

3 Press ▲/▼ to select a specific adjustment item.

4 Press ◀/▶ to adjust the item to your desired position, and press **END** to exit.

| Selected item | ◀ button | ▶ button |
|---|---|---|
| Treble* | For weaker treble | For stronger treble |
| Bass* | For weaker bass | For stronger bass |
| Balance* | Decrease audio from the right speaker. | Decrease audio from the left speaker. |

* These items cannot be adjusted when “Sound via” is set to “Hi-fi”.

**NOTE**

**For the picture and sound adjustments**
- When resetting all adjustment items to factory preset values, perform the following procedure.
  ① Press ▲/▼ to select “Reset”, and press **OK**.
  ② Press ▲/▼ to select “Yes”, and press **OK**.

## Sound Mode Settings

You can make various sound mode settings.

1 Perform steps **1** and **2** in **Sound Adjustments** to display the Sound Menu screen.

2 Press ▲/▼ to select the desired item, and press **OK**.

3 Press ▲/▼ to select the sound mode, and press **OK**.

4 Press **END** to exit.

| Selected item | Choice |
|---|---|
| Sound via | TV ⟷ Hi-fi |
| Loudsp. sound | Stereo ⟷ Mono<br>Sound 1 ⟷ Sound 2 ⟷ Sound 1+2 ⟷ Mono<br>Nicam ⟷ Mono<br>Mono |
| AV audio sig. | Sound 1 ⟷ Sound 2 ⟷ Sound 1+2 |
| Sound wide* | On (For increasing the spread of the sound) ⟷ Off |

* This item cannot be selected when “Sound via” is set to “Hi-fi”.

**NOTE**

**For the “Sound via” setting**
- When setting “Sound via” to “Hi-fi” in the Sound Menu screen, the sound from the built-in speakers will be turned off. To exit this mode, switch “Sound via” from “Hi-fi” to “TV” in the Sound Menu screen.
- You can adjust the volume by pressing ◿ **(+)/(–)**.

**For the “Loudsp. sound” setting**
- The sound output modes differ depending on whether or not a NICAM or A2 stereo signal is received. See “NICAM and A2 Stereo Broadcast Selection” below.

**For the “AV audio sig.” setting**
- Select “Sound 1” or “Sound 2” when playing back the video from mono-video recorders and “Sound 1+2” when playing back from stereo-video recorders.

## NICAM and A2 Stereo Broadcast Selection

This enables the selection of the reception mode when receiving a NICAM-I, NICAM-B/G or an A2 stereo signal. To let you enjoy NICAM or A2 stereo broadcasting, this LCD TV set receives NICAM stereo system, A2 stereo system, bilingual, and monaural broadcasts.

Each time you press ▽/○ I/II/I+II **(Sound)**, the mode changes as follows:

| Broadcast | Stereo* | Bilingual | Monaural |
|---|---|---|---|
| NICAM | Stereo ↕ Mono | Sound 1 → Sound 2 → Mono ← Sound 1+2 ← | Nicam ↕ Mono |
| A2 Stereo | Stereo ↕ Mono | Sound 1 → Sound 2 → Mono ← Sound 1+2 ← | – |

* When “Mono” is selected, the TV sound is output monaurally.

**NOTE**
- If the button is not pressed for a few seconds, the mode setting is automatically terminated and the LCD TV set returns to the normal mode.

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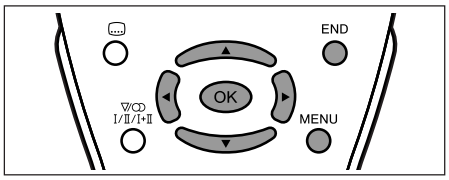
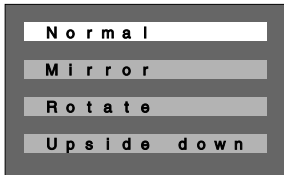
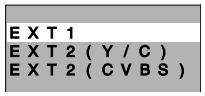
## Setup Settings

1 Press **MENU** to display the Menu screen.
2 Press ◀/▶ to select “Setup”.
3 Press ▲/▼ to select the desired item, and press **OK**.
4 Press ▲/▼ to select the desired mode, and press **OK**.
5 Press **END** to exit.



| Selected item | Choice/Description | | |
|---|---|---|---|
| **Programmes** | See page 11. | | |
| **First installation** | See page 8. | | |
| **Rotate**[*1]<br>  | Normal | Normal image orientation. | ABC |
| | Mirror | To display mirror images for special uses. | ƆBA |
| | Rotate | To display rotated images for special uses. | ∀BC |
| | Upside down | To display upside-down images for special uses. | ∀BC |
| **EXT connections**<br>  | It is possible to manually adjust various settings for connections with external devices on the “EXT connections” screen. Select the appropriate signal type and colour standard for the signals from the video equipment connected to the EXT1 or EXT2 terminal. | | |
| | EXT1<br>EXT2 (Y/C)<br>EXT2 (CVBS) | Signal type[*2] | Auto, CVBS, RGB: To select the signal type of external equipment. |
| | | AFC | Mode 1, Mode 2: To select frequency control modes.<br>Mode 1 is suitable for DVD players or decoders, and Mode 2 is suitable for VCRs or camcorders. |
| | | Colour system[*3] | Auto, PAL, SECAM, N358 (NTSC 3.58), N443 (NTSC 4.43), PAL-M, PAL-N, PAL60 |
| **Clock setup**<br> | Press ▲/▼ to set the time, and press **OK**. | | |
| **Language** | The language for the on-screen display can be selected from English, Spanish, German, French, Italian, Swedish, Dutch, Russian, Portuguese, Turkish, Greek, Finnish, and Polish. | | |
| **Teletext language**<br> | The language for the Teletext can be selected from West europe, East europe, Turkish/Greek, and Cyrillic. | | |

[*1] Direct setting can be made with **ROTATE** of the remote control.
[*2] This item is visible only when “EXT1” is selected for the “EXT connections” setting.
[*3] This item works only when “CVBS” is selected for the “Signal type”.

**NOTE**

**EXT connections:**
- If no (colour) image is displayed, try to change to a different signal type.
- Depending on the compatibility with the various types of equipment, the picture may become skewed. In this case, select the “AFC” (Automatic Frequency Control) mode that will improve the picture.
- Switching between AV input signals may be slow, depending on the settings in “Colour system”. If you want to speed up signal switching, select “Auto” in “Colour system” to the current reception colour system.

**Clock setup:**
- The time is automatically set or corrected via the Teletext broadcast when available.

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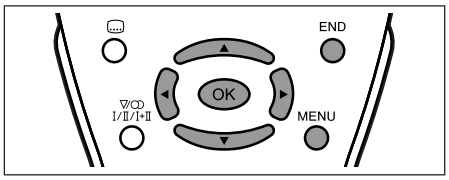
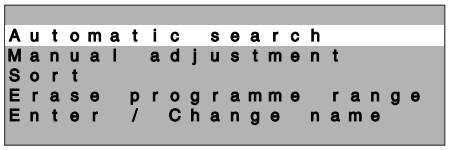
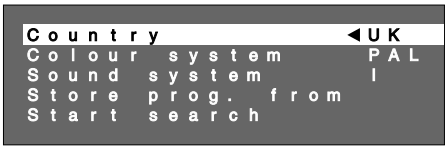
## Programmes




1 Press **MENU** to display the Menu screen.
2 Press ◀/▶ to select “Setup”.
3 Press ▲/▼ to select “Programmes”, and press **OK**.
4 Press ▲/▼ to select the desired item, and press **OK**.
5 Press **END** to exit.



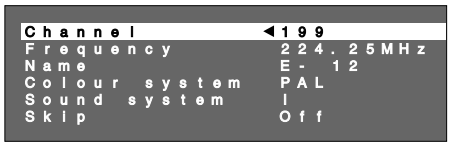

**[1] Automatic Search**
Perform the procedure above to search for and store new TV programmes after the First Installation routine.




| Selected item | Choice/Description |
|---|---|
| **Country** | Select your country or area from the displayed items. |
| **Colour system** | Auto, PAL, SECAM |
| **Sound system** | B/G, I, D/K, L/L’, Auto |
| **Store prog. from** | Press ▲/▼/◀/▶ to select the programme position from which the programmes are to be stored, and press **OK** to return to the automatic search setting screen. |
| **Start search** | Start Automatic search. |

**NOTE**
- You can change “Colour system” and “Sound system” only when “Other count.” is selected in “Country”.
- See page 8 for details on the search process.

**[2] Manual Adjustment**
Individual settings of programmes can be adjusted.




| Selected item | Choice/Value range | Description |
|---|---|---|
| **Channel** | 0–199 | The channel changes to the higher or lower channel. |
| **Frequency** | 044 – 859 (MHz) | Receivable frequencies depending on TV norm, installation site, and range. |
| **Name** | Alphabets, numerical values and symbols (e.g. !, t, etc.) | Programme name (up to 5 characters) |
| **Colour system** | Auto, PAL, SECAM | Colour norm |
| **Sound system** | B/G, I, D/K, L/L’, Auto | TV norm |
| **Skip** | On ↔ Off | Channel numbers with a “(♦) (RED)” mark on the left are set to Skip. |

**NOTE**
- Depending on the settings in the colour system of the channels, switching between channels may be slow. If you want to speed up channel switching, switch “Auto” in “Colour system” to the current reception system (PAL or SECAM).

**[3] Sort**
The programme positions for individual programmes can be changed freely.
Press ▲/▼/◀/▶ to select the desired programme, and press **OK** to sort.
- When **OK** is pressed, the Move mode is activated. Press ▲/▼ to move the currently marked programme to the desired programme position. When the channel has moved to the desired position, all the preceding/subsequent channel position will go up/down. Press **OK** to exit the Move mode.

**[4] Erase Programme Range**
The individual programme or programmes in a connected range can be erased.
Press ▲/▼/◀/▶ to select the programme to be erased, and press **OK**.
- If you want to erase programmes in a connected range, select the first programme of the range, and then select the last one. Press **OK** to erase the selected programme(s). All the subsequent programmes move up.

**[5] Enter/Change Name**
The name of an individual programme can be entered or changed.
Press ▲/▼/◀/▶ to select the desired programme, and press **OK**. Press ◀/▶ to select the input position, and press ▲/▼ to select the desired character.
Press **OK** to accept the name entered, and press **END** to exit.

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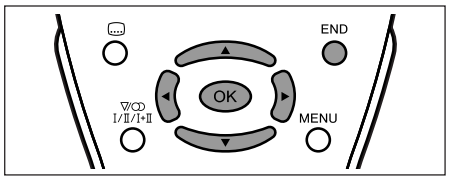
# Useful Features (continued)

## Using the Programme Table

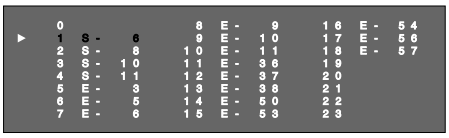
The Programme table shows a list of all receivable programmes. They are located in channels 0 to 199.




**To select the desired programme**

**1** Press **OK** to display the Programme table.

**2** Press ▲/▼/◀/▶ to select the desired programme.
- To display the next or previous list of the Programme table, press ▲/▼ when the cursor is at a programme in the lower-right or upper-left position, or press ◀/▶ when the cursor is at a programme in the right or left column.



**3** Press **OK** to display the selected programme, and press **END** to exit.

## Feature Settings

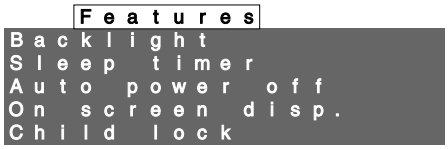
**1** Press **MENU** to display the Menu screen.

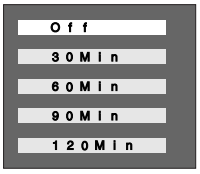
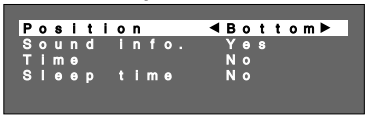
**2** Press ◀/▶ to select “Features”.

**3** Press ▲/▼ to select the desired item, and press **OK**.

**4** Press ▲/▼ to select the desired mode, and press **OK**.

**5** Press **END** to exit.




| Selected item | Choice | Description |
|---|---|---|
| **Backlight**[*1] | Auto (OPC) | Screen brightness is adjusted according to the ambient light of the room. |
| | Bright | Maximum brightness. |
| | Medium | Suitable for viewing in well-lit areas. Saves energy. |
| | Dark | Sufficiently bright when viewing in dim areas. |
| **Sleep timer**[*2]   | Off | You can set “Sleep timer” to automatically turn off the LCD TV set. |
| | 30Min | |
| | 60Min | |
| | 90Min | |
| | 120Min | |
| **Auto power off** | On | You can set the power to automatically turn off if there is no signal for 5 minutes. |
| | Off | |
| **On screen disp.**[*3]   | You can adjust various settings for on-screen displays. | |
| | Position | Bottom↔Top / To select the position of the on-screen display. |
| | Sound info. | No↔Yes / To select whether or not sound info is to be displayed, when a channel has been selected. |
| | Time | No↔Yes / To select information to be displayed on the on-screen display. |
| | Sleep time | |
| **Child lock** | See page 13. | |

[*1] Direct setting can be made with **BACKLIGHT** of the remote control.
[*2] The status display appears by pressing the **Yellow** button.
[*3] The status display appears by pressing the **Blue** button.

**NOTE**

**Backlight:**
- When set to “Auto (OPC)”, make sure that no object obstructs the OPC sensor, which could affect its ability to sense surrounding light.

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## Child Lock

**Important:**

- Please refer to page 16 for "IMPORTANT NOTE ON DISENGAGING ADVANCED CHILD LOCK".

The Child lock function blocks the viewing of any channels. To use this function, you need to define your PIN (Personal Identification Number) first.

### [1] Defining a PIN

1. Press **MENU** to display the Menu screen.
2. Press ◀/▶ to select "Features".
3. Press ▲/▼ to select "Child lock", and press **OK** to display the PIN input screen.
4. Input the desired four-digit PIN (e.g. 1234) with **Channel Select**, and press **OK**.

NOTE

- Be sure to make a note of your PIN before pressing **OK**.
- The PIN will not be set if **MENU** or **END** is pressed before the fourth digit has been input.

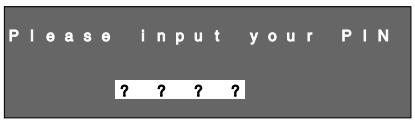
5. Press **OK** to accept the input PIN.

### [2] Setting a Child Lock

- There are two different ways of activating a Child lock:
  1. General child lock for all programmes
  2. Programme-position-related child lock

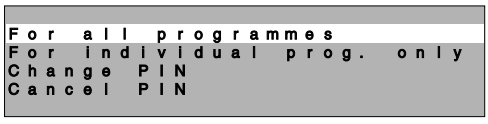
#### To set a Child Lock for all programmes

1. Perform steps **1** to **3** in **[1] Defining a PIN** to display the PIN input screen.
2. Input your four-digit PIN (e.g. 1234) with **Channel Select**.




- When the PIN is correctly input, the "Child lock" screen is displayed.

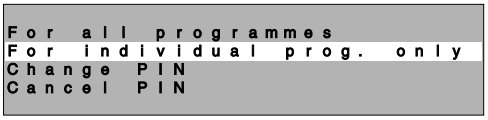
3. Press ▲/▼ to select "For all programmes", and press **OK**.




4. Press ▲/▼ to select "Yes", and press **OK**.
   - The lock remains effective until "No" is selected.
5. Press **END** to exit.

#### To set a Child Lock for individual programmes

1. Perform steps **1** and **2** in **[2] Setting a Child Lock** to display the "Child lock" screen.
2. Press ▲/▼ to select "For individual prog. only", and press **OK**.




3. Press ▲/▼/◀/▶ to select the desired programme.
4. Press **OK** to lock the programme.
   - The locked programme is displayed in red.

NOTE

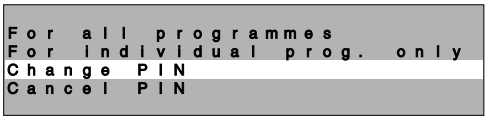
- To unlock the programme, select the programme, and press **OK**.
- The Child lock remains effective until it is cancelled.

5. Press **END** to exit.

### [3] Changing/Cancelling a PIN

#### To change a PIN

1. Perform steps **1** and **2** in **[2] Setting a Child Lock** to display the "Child lock" screen.
2. Press ▲/▼ to select "Change PIN", and press **OK**.
   - The currently defined PIN is displayed.




3. Input the new four-digit PIN (e.g. 5678) with **Channel Select**, and press **OK**.
4. Press **END** to exit.

#### To cancel a PIN

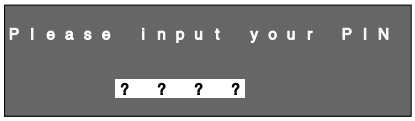
1. In step **2** above, press ▲/▼ to select "Cancel PIN", and press **OK**.
2. Press ▲/▼ to select "Yes", and press **OK**.

### [4] Temporarily cancelling the Child Lock setting

You can view a programme for which a Child lock has been set by temporarily cancelling the Child lock setting. Perform the procedure below to input your PIN and cancel the Child lock if you are prompted to do so.

When the PIN input screen is displayed, input your PIN with **Channel Select**.

- The normal screen appears when the PIN is correctly input.

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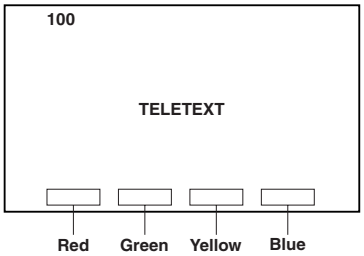
# Teletext

■ **What is Teletext?**
Teletext is an information service organised like a magazine, which is provided by some TV stations in addition to regular television broadcasting. Your LCD TV set receives special Teletext signals broadcast by a TV station, processes the information and displays it graphically on the screen. News, weather and sports information, stock exchange prices, programme reviews and closed captioning for people hard of hearing are among the many services available through Teletext.

■ **Teletext mode**
Teletext is turned on/off with **(Teletext)** on the remote control. You can operate your LCD TV set in Teletext mode directly by inputting commands with the remote control.

■ **Operating instructions in Teletext mode**
- The FLOF system for Teletext is transmitted in the UK currently.
- The TOP system for Teletext is transmitted in Germany currently.




■ **Using the TOP line**
When TOP Teletext is being broadcast, a control line and TOP line can be displayed on the screen. The TOP line involves the operating instructions associated with all of the **Coloured** buttons if TOP text is transmitted.

Press the **Coloured** buttons to operate the Teletext screen.
- Press **Red** to display the previous page and **Green** to display the next page. **Yellow** and **Blue** are as indicated on the TOP line.

| Operation button* | Description | To turn off the function |
|---|---|---|
| **P (∧)/(∨)**<br>**Channel Select (0-9)** | Changes the page number.<br>Directly select any page from 100 to 899 by using **0-9**. | – |
| **(Teletext)** | Displays Teletext screen. | Press again. |
| **(Subpage)**<br>**Channel Select (0-9)** | Displays a control line to change subpages.<br>Select the desired subpage number by using **0-9**. | Press again. |
| **(Hold)** | Holds the current Teletext page. | Press again. |
| ▲/▼ | Zooms the current Teletext page as shown below.<br>ABC DEF → ABC → DEF | – |
| **(Subtitle)** | Quickly activates subtitles. | Press . |
| **(Reveal)** | Display hidden information. | Press again. |

* See page 5 for details on the operation buttons.

**NOTE**
- For selecting the language for the Teletext screen, see “Teletext Language” on page 10.

# Troubleshooting

Before calling for repair services, make the following checks for possible remedies to the symptoms encountered.

**LCD TV set**

| Problem | Check item | Page |
|---|---|---|
| There is no picture or sound.<br><br>There is no picture from EXT2 . | • Reception other than that of broadcasting stations could be the problem. | – |
| | • Make sure the input mode is set to TV. | 5 |
| | • Make sure the main power switch of the LCD TV set is on. | 6 |
| | • Make sure the Picture adjustment is properly adjusted. | 9 |
| | • The fluorescent lamp may have reached the end of its service life. | – |
| | • Make sure the S-VIDEO terminal has nothing connected. | 7 |
| | • Make sure the volume is not set to minimum. | 5 |
| | • Make sure the sound is not set to mute. | 5 |
| There is no picture or sound, just noise.<br><br>The picture is not clear. | • Make sure the antenna cable is properly connected. | 3 |
| | • Bad reception could be the problem. | – |

| Problem | Check item | Page |
|---|---|---|
| The picture is too light or improperly tinted. | • Check the colour adjustment. | 9 |
| The picture is too dark. | • Check if “Backlight” is set to “Dark”. | 12 |
| | • Check “Contrast”. | 9 |
| | • The fluorescent lamp may have reached the end of its service life. | – |
| Remote control does not work. | • Check if batteries in the remote control have sufficient power. | 4 |
| | • Make sure the remote sensor window is not in strong light. | 4 |
| Unit cannot be operated. | • External influences such as lightning, static electricity, etc., may cause improper operation. In this case, operate the unit after turning the power off, or unplugging the AC cord and re-plugging it in 1 or 2 minutes. | – |

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**Antenna**

| Problem | Check item |
|---|---|
| The picture is not sharp.<br>The picture shakes. | • The reception may be weak.<br>• The quality of the broadcast may also be bad.<br>• Make sure the antenna is facing the correct direction.<br>• Make sure the outside antenna has not been disconnected. |
| The picture has ghosts. | • Make sure the antenna is facing the correct direction.<br>• Broadcast waves may be reflected from adjacent mountains or buildings. |
| The picture is spotted. | • There may be interference from automobiles, trains, high-voltage lines, neon lights, etc.<br>• There may be interference between the antenna cable and power cable. Try positioning them further apart. |
| There are stripes on the screen or colours fade. | • Is the unit receiving interference from other devices?<br>Transmission antennas of radio broadcasting stations and transmission antennas of amateur radios and mobile phones may also cause interference.<br>• Use the unit as far apart as possible from devices that may cause possible interference. |

■ **Cautions regarding use in high and low temperature environments**

- When the unit is used in a low temperature space (e.g. room, office), the picture may leave trails or appear slightly delayed. This is not a malfunction, and the unit will recover when the temperature returns to normal.
- Do not leave the unit in a hot or cold location. Also, do not leave the unit in a location exposed to direct sunlight or near a heater, as this may cause the cabinet to deform and the LCD panel to malfunction. (Storage temperature: –20°C to +60°C (–4°F to +140°F)

# Specifications

| | |
|---|---|
| Model | LC-20S4E |
| LCD panel | 20" Advanced Super View & BLACK TFT LCD |
| Number of dots | 921,600 dots VGA |
| Video colour system | PAL/SECAM/NTSC |
| TV | TV-Standard (CCIR): B/G, I, D/K, L/L'<br>TV-Tuning System: Auto preset 200 ch.<br>STEREO/BILINGUAL: NICAM, A2 stereo<br>AUTO PRESET: YES<br>CATV: ~Hyper Band |
| Brightness | 430 cd/m$^2$ |
| Lamp life | 60,000 hours* |
| Viewing angles | H: 170˚ V: 170˚ |
| Audio amplifier | 2.1 W × 2 |

| | |
|---|---|
| Speakers | 11 cm × 4 cm 2 pcs. |
| Terminals | EXT1: 21-pin Euro-SCART<br>EXT2: S-VIDEO, VIDEO, AUDIO<br>OUT: AUDIO<br>Antenna: DIN<br>Headphones: 3.5 mm ø jack (front) |
| OSD language | English/Spanish/German/French/<br>Italian/Swedish/Dutch/Russian/<br>Portuguese/Turkish/Greek/Finnish/Polish |
| Power requirement | AC 220-240 V, 50/60 Hz |
| Power consumption | 68 W (0.8 W Standby) AC 230 V |
| Weight (approx.) | Display only: 6.3 kg<br>Display with stand: 7.0 kg |
| Operating temperature | 0°C to +40°C (+32°F to +104°F) |

* Typical time for power output decrease of about one-half assuming continuous use in a room with normal lighting, normal brightness and temperature at 25˚C/77˚F

■ As a part of policy of continuous improvement, SHARP reserves the right to make design and specification changes for the LCD TV set improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

**The Consumer Electronics Industry has initiated a commitment to improve the energy efficiency of TVs. SHARP has signed this commitment and as a result this TV may have a label on the front of the product informing the customer of the energy consumption in various operating modes.**

"ON" : The energy consumption (W) of the set when operating with picture and sound (measured according to IEC 62087:2002)

"Standby" : The energy consumption (W) of the set when in standby, no picture or sound (measured according to IEC 62087:2002)

An estimated annual energy consumption (kWh) based on a duty cycle of 4 hours "on" and 20 hours in "standby" for 365 days

Note: The IEC 62087:2002 measurement standard sets brightness and sound levels that may not be the same as the TV in "shipped" condition. Therefore the power consumption as measured at "on" is purely indicative and may not be the same value as in the "shipped" condition.

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# End of Life Disposal

Attention: Your product is marked with this symbol. It means that used electrical and electronic products should not be mixed with general household waste. There is a separate collection system for these products.

**A. Information on Disposal for Users (private households)**
**1. In the European Union**
Attention: If you want to dispose of this equipment, please do not use the ordinary dust bin!

Used electrical and electronic equipment must be treated separately and in accordance with legislation that requires proper treatment, recovery and recycling of used electrical and electronic equipment.
Following the implementation by member states, private households within the EU states may return their used electrical and electronic equipment to designated collection facilities free of charge*. In some countries* your local retailer may also take back your old product free of charge if you purchase a similar new one.
*) Please contact your local authority for further details.
If your used electrical or electronic equipment has batteries or accumulators, please dispose of these separately beforehand according to local requirements.
By disposing of this product correctly you will help ensure that the waste undergoes the necessary treatment, recovery and recycling and thus prevent potential negative effects on the environment and human health which could otherwise arise due to inappropriate waste handling.

**2. In other Countries outside the EU**
If you wish to discard this product, please contact your local authorities and ask for the correct method of disposal.
For Switzerland: Used electrical or electronic equipment can be returned free of charge to the dealer, even if you don't purchase a new product. Further collection facilities are listed on the homepage of www.swico.ch or www.sens.ch.

**B. Information on Disposal for Business Users**
**1. In the European Union**
If the product is used for business purposes and you want to discard it: Please contact your SHARP dealer who will inform you about the take-back of the product. You might be charged for the costs arising from take-back and recycling. Small products (and small amounts) might be taken back by your local collection facilities.
For Spain: Please contact the established collection system or your local authority for take-back of your used products.

**2. In other Countries outside the EU**
If you wish to discard of this product, please contact your local authorities and ask for the correct method of disposal.

**IMPORTANT NOTE ON DISENGAGING ADVANCED CHILD LOCK**

We suggest that you remove the following instruction from the operation manual to prevent children from reading it. As this operation manual is multilingual, we also suggest the same with each language. Keep it in a safe space for future reference.
If you have forgotten your personal code number and cannot disengage ADVANCED CHILD LOCK, follow the procedure below.
**1**. Press **MENU** to display the Menu screen.
**2**. Press ◀/▶ to select "Features".
**3**. Press ▲/▼ to select "Child lock", and press **OK**.
**4**. The PIN input menu is displayed.
**5**. Input "3001" with **Channel Select**.
The Child lock setting menu is displayed.
ADVANCED CHILD LOCK will now be disengaged.

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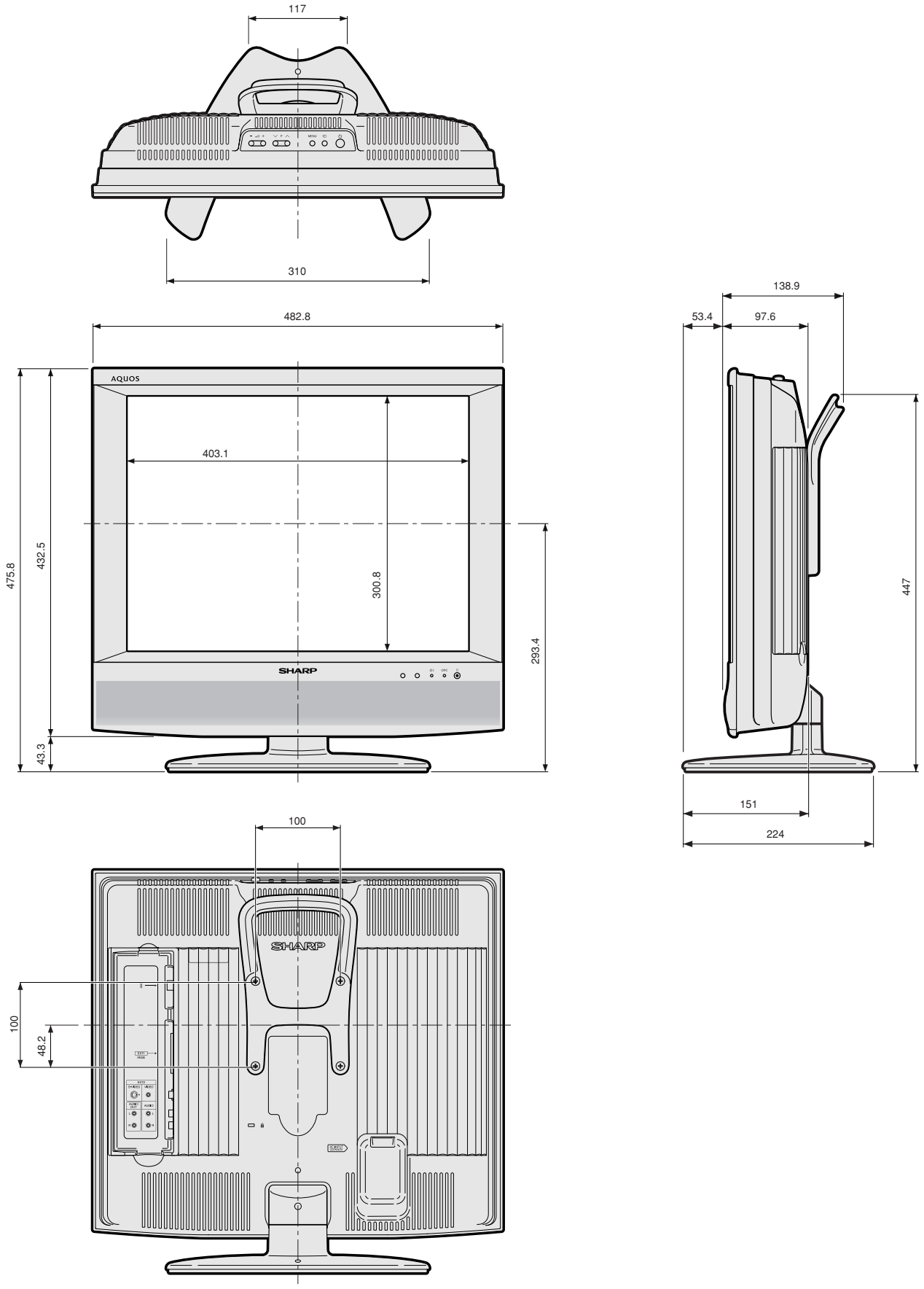
# Dimensional Drawings

Unit: mm

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